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From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: List
Subject: Ham-Equip Digest V94 #397
To: Ham-Equip

Ham-Equip Digest Tue, 1 Nov 94 Volume 94 : Issue 397

Today's Topics:

(none)
BEST DUAL-BAND MOBIL
Best dual-band mobile
Best dual-band mobile?
GE Phoenix Prog. Info.
ge to 220 conversion
Good 2M handheld?
HELP with RS HTZ-202
Icom IC-125 mods..
Icom R-7100: How to remove tuning knob?
Millen Grid Dip Meter
Mod for icw21at wanted..
rechargable AA's?

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 31 Oct 94 23:19:30 GMT
From: fk460@cleveland.Freenet.EDU (Bill Takacs)
Subject: (none)

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Date: Sun, 30 Oct 94 09:12:38
From: kn4aq.gary@mms.raleigh.nc.us

Subject: BEST DUAL-BAND MOBIL

Ne> I've got a dual band ht (Yaesu FT-530), and am very happy with it. I'm
Ne> shopping for a dual band mobile now. Any opinions on the FT-5100,
Ne> Kenwood 733A, or Icom 2340? If you're using any of these radios and
Ne> have an opinion good/bad, I would appreciate some feedback (no pun
Ne> intended). Thanks. Terry VE4UC

I have an Kenwood 733. I use it primarily for packet at home, though I've
used it mobile a little. I like the radio -- it's very flexible and
has lots of functions. Over the years, I'd keep saying "I wish my radio
would do 'x,' and the 733 does much of what I'd been wishing for.

That versitility means complexity, however. The radio has nearly
100 pushbutton and combination-pushbutton functions. 15 of them are
documented on the buttons or the front-panel display. That leaves
a lot of functions to try to remember. I've made a "cheat-sheet" from
a function list previously published on the net to help me remember some
of the lesser-used functions.

"Guessing" at a function, particularly a multi-step function, can get
you stuck with a parameter set you don't want (like limiting the range
of the VFO, or locking out the transmitter), and until you haul out the
book, you can't get un-stuck... except...

...there are six special "programmable memories" in addition to the 70
standard memories, shared between VHF and UHF. The programmable memories
remember almost all of the 100 function settings, so if you really bollix
the radio up trying to guess a function, you can return to one of those
programmable memories and start over.

My most serious complaint is poor intermod rejection. I live in Raleigh,
NC, not a major megalopolis. I'm on a ridge, one of the higher spots in
the county, so within a mile of me are several towers, with lots of RF,
particularly paging transmitters with a few kW ERP. I have a tall mobile
whip on a vent pipe on the roof as a base station antenna.

When I connect an HT to that antenna, many channels are "blown away" by
paging and commercial voice intermod. Even when I'm not hearing the
intermod, the HTs are desensitized, and receive poorly. My voice base-
station is an Icom 2410. It hears almost no intermod on VHF, and none
at all on UHF, and seems to maintain full sensitivity. The 733 falls
in between -- a few specific frequencies hear paging garbage "S-9," a few
others hear weak trash, but most of the band is clear. Sensitivity seems
OK.

The 733 has a feature called "AIP (Advanced Intercept Point)," that is
supposed to reduce intermod. And it does. Turning it on will drop all

signals 5 or 10 dB, and drop intermod maybe 10 to 20 dB. You lose the weakest signals when you turn it on, and the weaker intermod goes away.

Anyone reading this will have to try to decide for themselves what their "intermod" situation is like. My guess is the radio would be pretty bad used mobile in the major city downtown areas, but everywhere else, no problem.

There have been some excellent postings on mods and bugs here in the Ham Tech newsgroup. If you can recover them, you should.

73, Gary KN4AQ, Raleigh NC

___ Blue Wave/QWK v2.12

Date: Sun, 30 Oct 94 13:02:00 -0800

From: grinder!darryl.linkow@kaiwan.com (DARRYL LINKOW)

Subject: Best dual-band mobile

RS>I have the FT5100 for about a week now. So far an excellent radio. I
RS>use it as a base and packet station and it does an excellent job (it
RS>has a built-in TNC jack in the back). I also looked at the Icom 2340
RS>but I did not buy it since it does not have an antenna duplexer (it
RS>has 2 antenna connections on the back, so you either have to have 2
RS>antennas -1 for 2m and 1 for 73 cm- or buy an optional antenna
RS>duplexer -an extra \$30-\$50-). This one was the main reason I did not
RS>buy the ICOM. I did not look at the Kenwood. My \$.02.
RS>73 de Rafael, KE6JSR

Rafael, I have an FT5100 and think it is quite an excellent radio.
I too like the built-in duplexer. I don't blame you for not
looking at the Kenwood. Generally, they are of lesser quality than
Yaesu and Icom and I have been told that their service dept.
personnel's attitudes really suck! Stick with Yaesu!!

73 de Darryl, KE6IHA

* OLX 2.2 * Darryl Linkow (818)346-5278 9 am - 5 pm PDT

Date: Mon, 31 Oct 1994 10:44:28 -0500

From: kgk@nwu.edu (Kenneth Kalan)

Subject: Best dual-band mobile?

In article <CyGzzt.7rA@zimmer.CSUFresno.EDU>, rafael@zimmer.CSUFresno.EDU
(Rafael Solis) wrote:

> I have the FT5100 for about a week now. So far an excellent radio. I
 > use it as a base and packet station and it does an excellent job (it
 > has a built-in TNC jack in the back). I also looked at the Icom 2340
 > but I did not buy it since it does not have an antenna duplexer (it
 > has 2 antenna connections on the back, so you either have to have 2
 > antennas -1 for 2m and 1 for 73 cm- or buy an optional antenna
 > duplexer -an extra \$30-\$50-). This one was the main reason I did not
 > buy the ICOM. I did not look at the Kenwood. My \$.02.
 >

I've also got the FT5100 and really like it. It offers a good value for the money. I also purchased the optional tone decoder board.

All in all, I'm very pleased with the unit.

ken

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Kenneth Kalan      PP ASEL
Northwestern University
Prosthetics Research Laboratory
Rehabilitation Engineering Program
kgk@nwu.edu        N9YIR
o                  0
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Date: 31 Oct 1994 14:53:44 GMT
From: lapp@waterloo.hp.com (David Lapp)
Subject: GE Phoenix Prog. Info.

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I'm the proud owner of a GE Phoenix SX mobile radio. I'd like to "convert" this for use on 440 MHz. According to the service manual this "conversion" looks pretty simple since the model I've got is supposed to handle 440-470 MHz.

The version I have supports 2 channels and with a few external components I can make it have 16. The channel information (Rx & Tx freq. CTCSS etc.) is programmed into a Xicor X2212 EEPROM. I can take the radio to a local shop and get it reprogrammed for \$30 but I'd rather not have to do that everytime I want to add a new repeater. I can program this part but I need to know what format the data takes. I had hoped that the format would be "obvious" and I'd be able to figure it out from the existing data. Unfortunately it isn't that obvious.

I think I've determined how the Rx freq. data is stored. You might expect that the Tx freq. data would have a similar format (I did!) but either I'm wrong about the Rx freq. data or EEPROM is corrupt

because I can't make sense of the data in the locations that I think should contain the Tx data.

So: Can anyone tell me the format of the data in the EEPROM for this radio ?

Thanks,

Dave Lapp
VE3LHO

Date: 31 Oct 1994 08:19:26 -0800
From: rdcole@crl.com (Ron Cole)
Subject: ge to 220 conversion

Steven Smith (smsmith@pinot.callamer.com) wrote:
: Can anyone direct me to information on the conversion of GE Master or MVP
: radios to the 220 band? I've been told that it's done a frequently but
: I've been unable to find any info on the conversion.

Check the mods database at oak.oakland.edu or ftp.ucsd.edu. There are
mods to take high split highband Motorola's to 220, there might be
information on GE's too.

Ron Cole Internet:rdcole@crl.com ICBM:29 31.03 N
N5HYH CIS:70325,102 98 25.55 W
CE KZEP/KHBL AX25:N5HYH @ K3WGF.STX.NA

Date: Sun, 30 Oct 1994 04:08:00 GMT
From: clint.bradford@ectech.com (Clint Bradford)
Subject: Good 2M handheld?

MH>Path: planet!isdnlm.mtsu.edu!darwin.sura.net!howland.reston.ans.net!swrinde
>From: Mark Halliday <markh@media.mit.edu>
>Newsgroups: rec.radio.amateur.equipment
>Subject: Good 2M handheld?

MH>I've looked at the Kenwood TH-22AT and like it for it's feature, size and
>flexibility. What are others' experience with this radio. I can get it
>for \$262 - \$20manuf. rebate; is that a good price.

MH>I am also intrigued by the Standard C108A.

Of THOSE two, the Kenwood is a vastly superior machine.

The COMPARABLE Standard HT is the C158A - with much better power use specs, better sensitivity, and the best Customer Service Department I could find.

* QMPro 1.53 * Time flies like wind. Fruit flies like pears.

Date: Sun, 30 Oct 1994 04:16:00 GMT
From: clint.bradford@ectech.com (Clint Bradford)
Subject: HELP with RS HTZ-202

R>Path: planet!isdnlm.mtsu.edu!darwin.sura.net!news.larc.nasa.gov!news.msfc.na
>From: richard.krum@msfc.nasa.gov (Richard M. Krum, KE4GNK)
>Newsgroups: rec.radio.amateur.equipment
>Subject: Re: HELP with RS HTZ-202

R>It is a nice, although somewhat limited radio that works very well in the
>2 metre Ham bands. I have two of them, both heavily used.

"Somewhat limited"? It performs magnificently, and as advertised.

The HTX-202 has 12 independently-programmable memory channels, plus one calling and three priority channels. It comes with continuous tone squelch encode -AND- decode. Power output is 5 watts minimum (7w typical) with 12 VDC supply, 3 watts @ 9 VDC or 2 watts @ 7.5 VDC. Low power setting provides 1 watt output. A power saver circuit with programmable 1/2, 1/4, 1/8, or 1/16-second duty cycle. Batteries are compatible with larger ICOM (IC-2AT/IC-32AT) series HTs.

Repeater offset can be adjusted from 0 to 4 MHz in steps as set by the scan frequency step selection (5, 10, 20, 25, 50 or 100 KHz). Memories store any offset, and any combination of continuous tone frequencies.

Supplied with Nicad battery, charger, 6-cell alkaline battery case, antenna, wrist strap and belt clip. Features include:

- * True FM modulation (not phase modulation) for outstanding transmit audio and best performance in packet service.
- * Continuous tone squelch transmit and receive tones are independently programmable.
- * In addition to DTMF dialing, there is 5-digit DTMF selective paging (DTMF squelch).
- * A five-number memory dialer that stores 15-digit sequences for autopatch use or DTMF paging.
- * Scan for either active -- or vacant -- channels, with

- programmable scanning step of 5, 10, 20, 25, 50 or 100 KHz,
and upper and lower scan limits (for VFO scan.)
- * FAST, 25 channels/second scanning.
 - * Selectable priority channel scan interval, every 4, 8, 12 or 16 seconds.
 - * Multi-function scanning lets you scan standard memories, priority freq. memories, or a frequency range. Resume can be after 10 seconds, when carrier drops, or remain on channel (don't resume.)
 - * Transmit timeout - if you frequently time-out your local repeater, this circuit will stop transmitting after a preset delay (30, 60 or 120 sec.) and sound a beep. In effect, it forces you to reset the repeater before the repeater times out. Of course you can disable the timeout circuit.
 - * The HTX-202 carries a 1-year parts and labor warranty.

It ain't pretty. It doesn't have 200 channels. But it is a workhorse of an HT.

* QMPro 1.53 * Time flies like wind. Fruit flies like pears.

Date: Mon, 31 Oct 1994 10:45:46 EST
From: <JBAACK31@MAINE.MAINE.EDU>
Subject: Icom IC-125 mods..

Hello all, just a little question to ask to all of you more knowledgeable Hams,
I have a IC-215 (3wPeP) that I want to use for packet radio with an amp.
However, the infoprmtion that I have on the unit states that it was the " FM g
rabber, from 146-148 Mhz. Since the Packet freq is 145.03.. I think I have a p
roblem.. How can I modify this radio to run on the 145.03? It might be a simpl
e as getting the correct Xtals and dropping them in but I do not think so...
Thanks

Jason K Baack
Coordinator University Ambulance Training and Safety
Orono Me.
JBAACK31@Maine.Maine.edu
(207) 581-4128
N1RWY

Date: 31 Oct 1994 05:27:36 -0800

From: dseitel@crl.com (David S. Eitelbach)
Subject: Icom R-7100: How to remove tuning knob?

I sent my R-7100 into Icom's service place a while back and there's a smudge on the inside of the S-meter that looks like a fingerprint. I'd like to get it off. It looks like I have to take off the tuning knob to get at it.

After removing the rubber cover on the tuning knob, there is what looks like a concave-headed screw in a hole in the tuning knob. No easy way to get any purchase on that strange screw.

Can anyone tell me the proper way to remove the tuning knob?

David S. Eitelbach
dseitel@crl.com

Date: Mon, 31 Oct 1994 16:10:01 GMT
From: dara@physics.att.com (Shel Darack)
Subject: Millen Grid Dip Meter

Fred dugas (fdugas@halcyon.com) wrote:
: Howdy Everyone, I just found a Millen Grid Dip Meter, I didn't find the
: paperwork for the meter though. Does anyone know where I could find a owners
: manual or tech manual for this meter? I would be willing to pay for a copy of
: the manual (plus shipping). leave e-mail at "fdugas@halcyon.com" thanks for
: your time. 73's Fred

Did you also find the plug in coils with it?
The ARRL handbook used to have a chart to use with a grid dipper.
I don't know if it is in the current editions.
Shel WA2UBK

Date: Mon, 31 Oct 1994 13:14:58 GMT
From: crumrine@crsgil.erenj.com (MDCRUMR Crumrine)
Subject: Mod for icw21at wanted..

Hi,

I have the oakland mods - keyboard and diode mod. It opens up the lower bands from 110-200, but the upper is still 440-450. Is there another trick that I am missing? Thanks...

Mike

Date: 29 Oct 1994 00:10:44 GMT
From: charnoft@wfu.edu (Forrest T Charnock)
Subject: rechargeable AA's?

I want to get some rechargeable AA's for my HT. What are the pro's and con's of the nicads, the new alkalines, and whatever else is out there?

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 * * * * *
Olin Physical Lab | The more the pity that fools may not speak
Wake Forest University | wisely what wise men do foolishly.
Winston-Salem, NC | --Touchstone
KE4RJG |

Date: 31 Oct 1994 08:16:01 -0800
From: rdcole@crl.com (Ron Cole)

References<29837@pc.4z7aba.ampr.org> <38p2m0\$2k2@crl2.crl.com>,
<Ed_Velez-2710941727420001@macj712.svl.trw.com>
Subject: Re: AMP for cellular phone (800 MHz)

Ed Velez (Ed_Velez@smtp.svl.trw.com) wrote:
: In article <38p2m0\$2k2@crl2.crl.com>, rdcole@crl.com (Ron Cole) wrote:

: >
: > I wish I had seen this earlier. I just threw away a Cell Phone
: > amplifier. It as a 1 Watt in 50 Watt our amplifier. It needed 4 amps at
: > 24 vdc. I think the thing was built by AT&T. How you would get a mobile
: > cell phone connected it this thing I would not begin to guess. I came of
: > a local Cell site that was being upgraded a couple of years ago.

: Why anyone would want 50 watts at 800mhz buzzing around their head is
: beyond me. I thought only CBer's wanted high power to prove a point. The
: excess wattage on cellular will only be bumped down by the cell site
: anyway when it tells the phone to do a PLC because of receiver front end
: overload. Not to mention that you can cause some nasty co-channel
: interference to someone else on the same channel out in the distance...

This 50 watt amp was surplus from a Cell phone base station. It was replaced with 75 watt radios for rural coverage.

Ron

End of Ham-Equip Digest V94 #397
